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146843

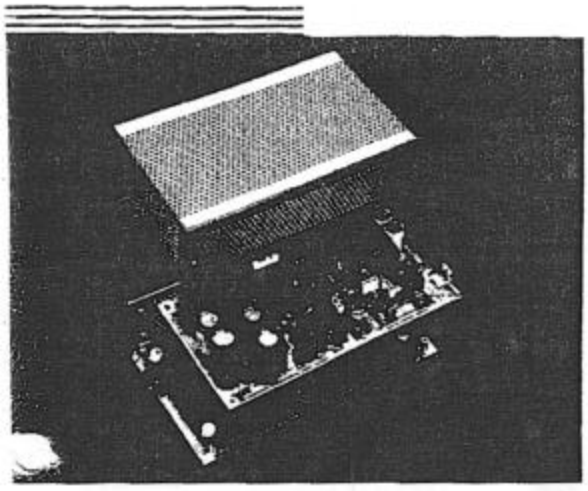
50-WATT SWITCHING POWER SUPPLY

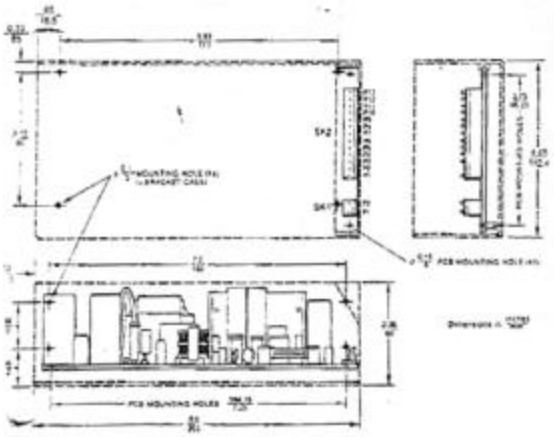
AC9252-01, AC9262-01, AC9232-01

SA50-1400, SA50-2400, SA50-3400

ASTEC

A BSR COMPANY





DESCRIPTION

The AC9252-01. AC9262-01, and AC9232-01 are identical 50-watt, multiple-output switching power supplies, but packaged in three versions: open printed circuit board AC9252-01 (SA50-1400), "L" bracket mounted AC9262-01 (SA50-2400), or metal closure AC9232-01 (SA50-3400). These supplies are ideally suited for use in small microprocessor-based systems, disc drive systems, terminals, and other mixed logic applications. Input voltage is jumper selectable for either 115 VAC or 230 VAC. The AC9252-01, AC9262-01, and AC9232 01 are UL, CSA, and VDE approved.

FEATURES

- High efficiency
- Built-in EMI filter
- OL/CSA approved
- VDE approved
- 100% thermal cycle and burn-in
- Vacuum impregnated transformers
- Dual input voltage 115/230 VAC
- Low output ripple
- Overvoltage protection
- Short circuit protection
- Open PCB "L" bracket or boxed construction
- DC OK signal

MATING CONNECTORS

AC Input: Motex P/N 09-50-3031
DC Output: Motex P/N 09-50-3131

PIN ASSIGNMENT

SK1	P1 Live
(AC Input)	P2 Natural
SK2	P1 Exict Signal
(DC Output)	P2 Key
	P3 +12V
	P4 +12V
	P5 +5V
	P6 +5V
	P7 Common
	P8 Common
	P9 Common
	P10 SVRTN
	P11 -SV
	P12 12V RTN
	P13 -12V

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AC252-01, AC9262-01, AC9232-01
SA50-1400, SA50-2400, SA50-3400

OUTPUT CHARACTERISTICS

Output current capacity:

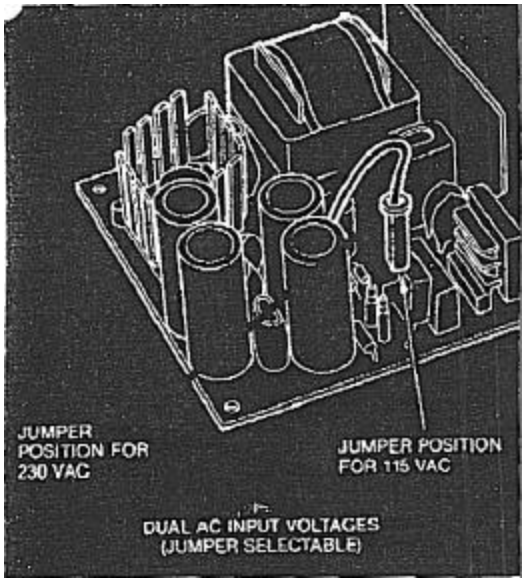
Output Voltage[1]	Load		Tolerance[1]	Output Ripple[2]
	min	Max		
+ 5.1 VDC	1.2A	6.0A	± 2%	50mV p-p
+ 12VDC	0.5A	2.5A	± 5%	120mV p-p
- 12 VDC	0	0.5A	± 5%	120mV p-p
- 5 VDC	0	0.5A	± 5%	50mV p-p

INPUT CHARACTERISTICS

AC Input voltage: 90 to 135 VAC, or 180 to 270 VAC (Selectable by jumper on PCB)
AC Input frequency: 45 to 400 Hz
AC Input current: 1.0A (rms) for 115 VAC
0.6A (rms) for 230 VAC

NOTES:

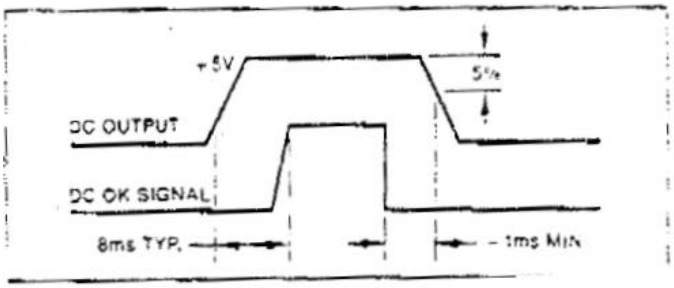
1. *The output tolerance refers to the nominal voltage and includes line regulation, load regulation, temperature drift and set-up tolerance.*
2. *The specified ripple is at the rated line voltage and load range.*
3. *The - 12V and - 5V outputs are floating, and therefore may also be used as positive outputs.*
4. *The maximum continuous output power shall not exceed 50 watts.*



GENERAL CHARACTERISTICS

Operating temperature: 0deg to 50°C fullload, lihear derating to 50% load at 70°C
Efficiency: 65% minimum at full load
Line regulation: 0.2%
Overcurrent protection: Short circuit protection on all outputs
Insulation resistance: 50 MÙ
Hold-up time: 24msec, typical
Load transient response: 2% maximum for load step 50% to 100% on the + 5V output
Mean-time-between-failure: 50K hours at full load at 25°C ambient temperature
Storage temperature: - 20°C to - 85°C
EMI Requirements: Meets conduction limits of
a) FCC Class "B" rules
b) VDE 0871 Class "B" rules
Safety requirements: Meets or exceeds:
a) UL 1012 (File #E69016)
b) CSA 22.2
c) VDE 0806
Inrush current: 29 amps @ 115 VAC, or 49 amps @ 230 VAC at 25°C ambient cold start

DC OK Signal: The DC OK Signal is used to monitor the + 5V output to indicate that it is within tolerance and when failure is imminent (see figure 1). When the output is within tolerance, the DC OK Signal will be positive and is able to source current through a 1.2K Ohm pull-up resistor to the + 5V output. Should the input line fail, the DC OK Signal will go to zero and sink 100mA, providing at least a 1 msec warning



that output voltage will fall below 4.75 volts.

MECHANICAL CHARACTERISTICS

Model	Length		Width		Height		Weight	
	inches	mm	inches	mm	inches	mm	ounces	kg
AC9252-01	7.7	196	4.2	106	1.77	45	18.3	52
(SA50-1400)								
AC9262-01	8	203	4.4	112.4	2.4	60	23.5	87
(SA50-2400)								
AC9232-01	8	203	4.4	112.4	2.4	60	34.5	98
(SA50-3400)								

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